

Figure 1

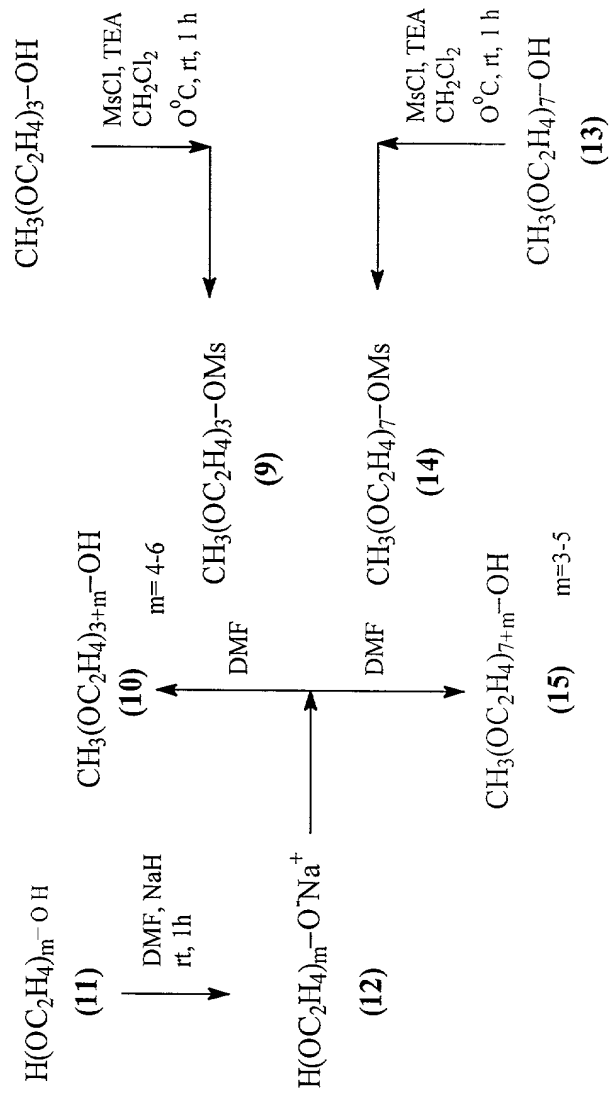


Figure 2

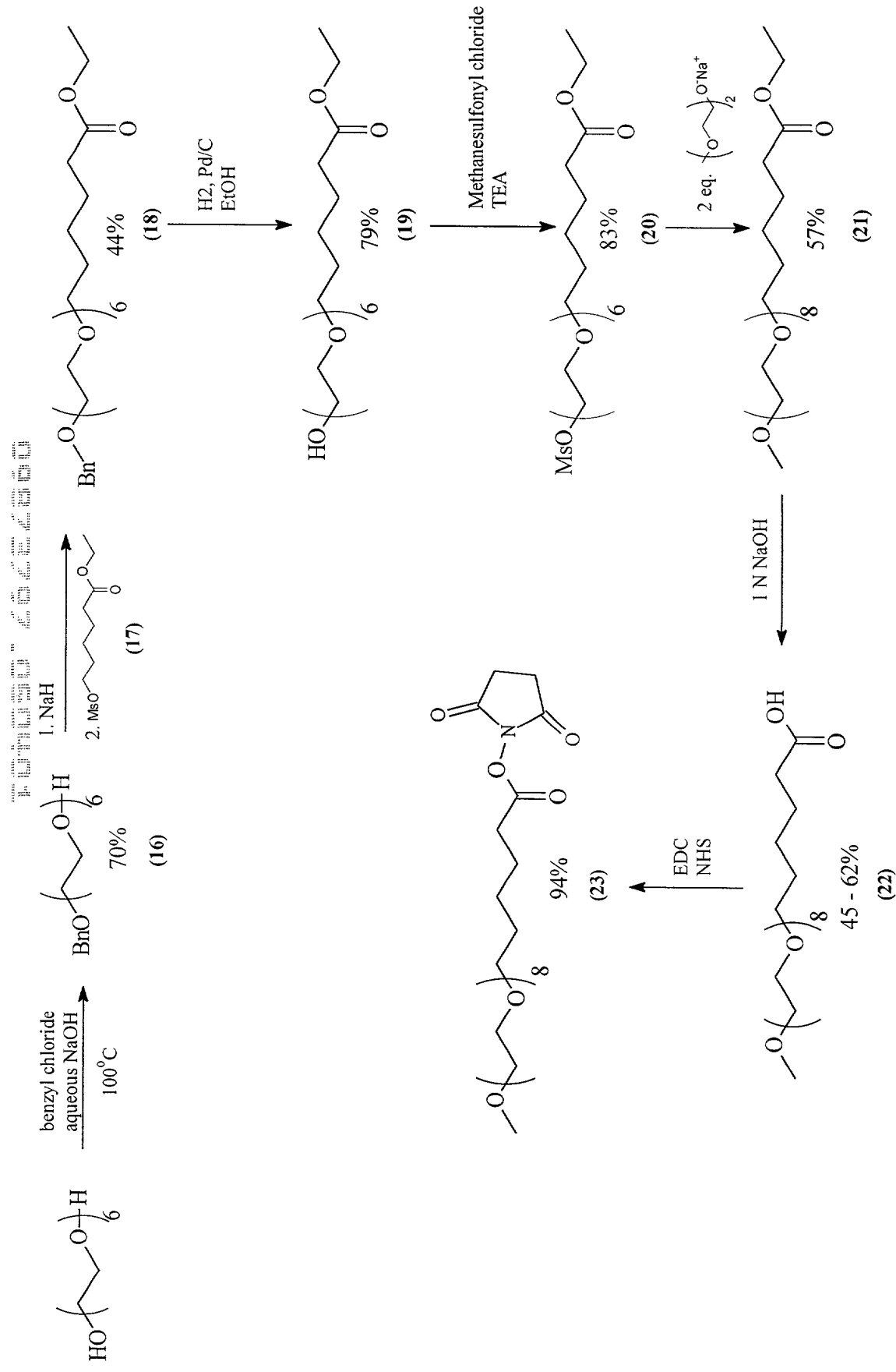


Figure 3

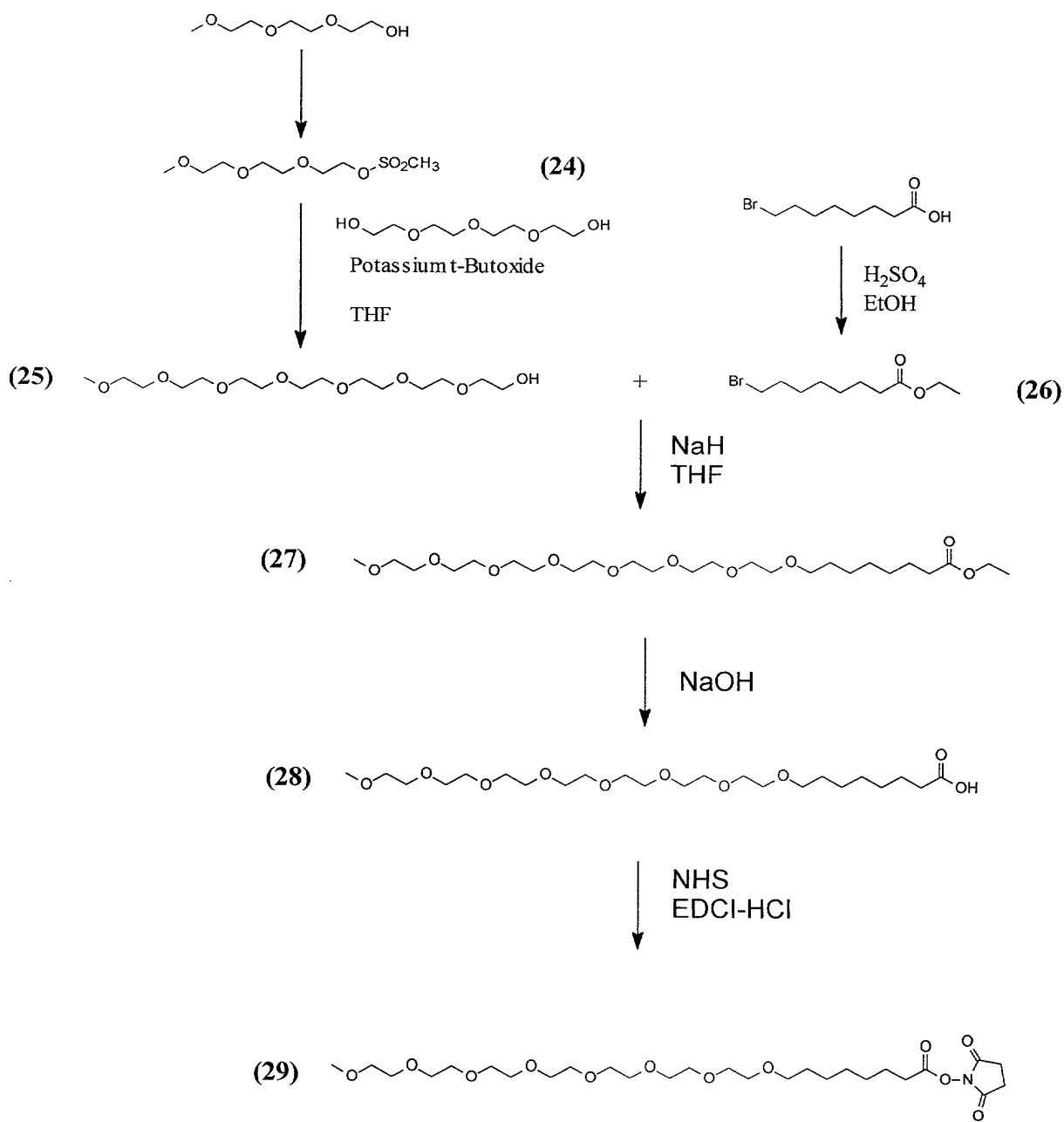
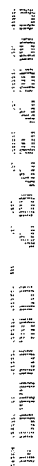


Figure 4



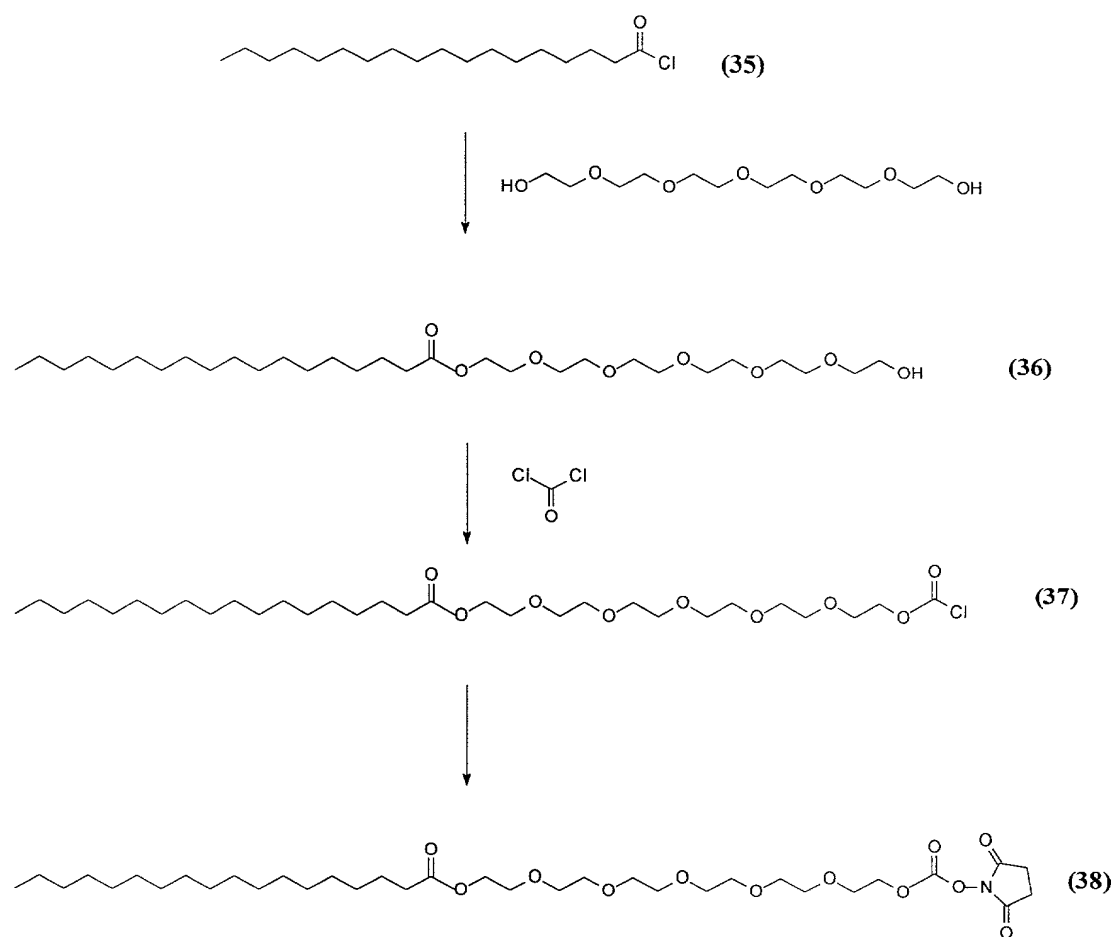
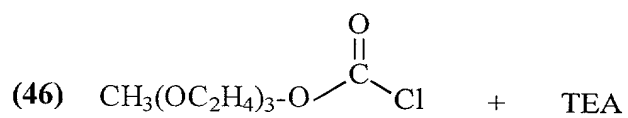
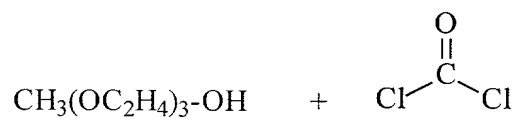


Figure 6



DCM

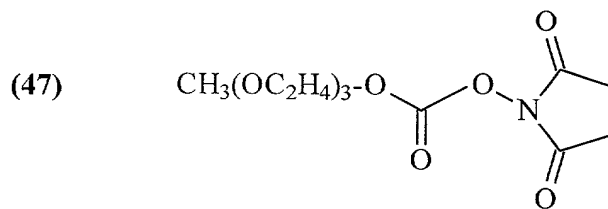
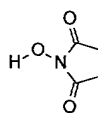


Figure 8

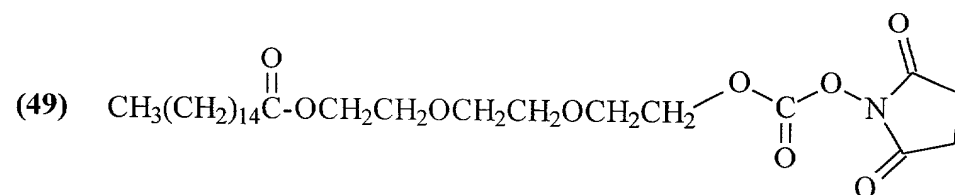
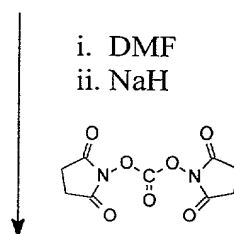
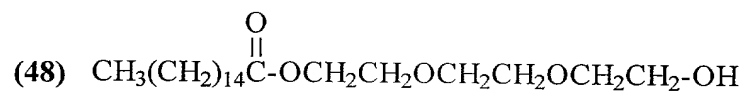
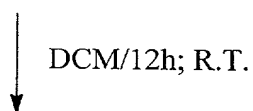
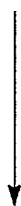
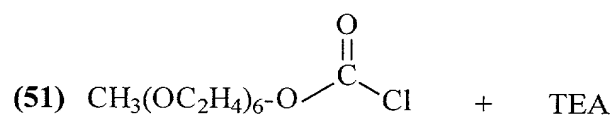
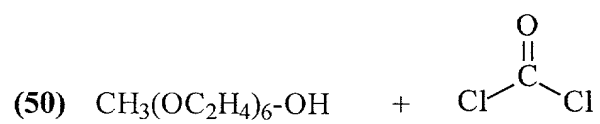


Figure 9



DCM

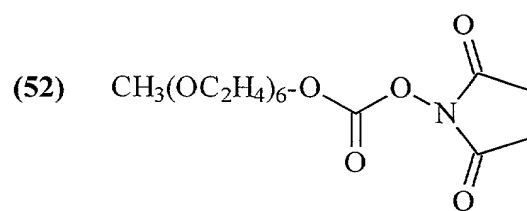
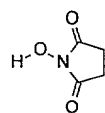
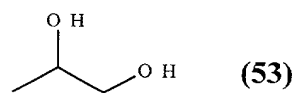
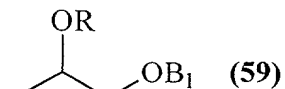
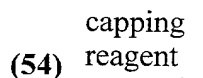
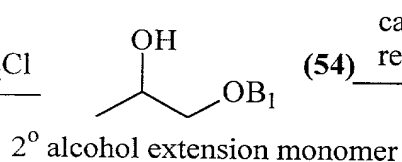
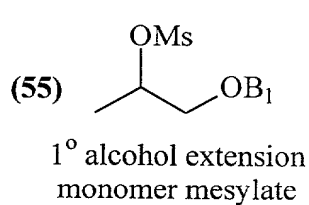


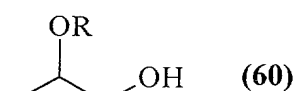
Figure 10



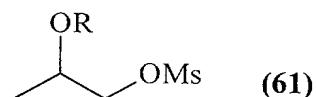
\downarrow 1° alcohol
blocking
reagent



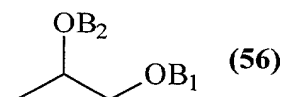
\downarrow B₁
de-blocking
reagent



1° alcohol capping monomer



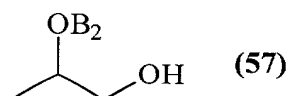
2° alcohol capping
monomer mesylate



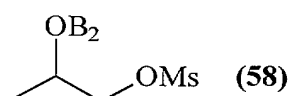
(56)

\downarrow 2° alcohol
blocking
reagent

\downarrow B₁
de-blocking
reagent

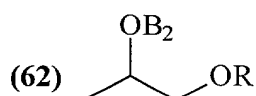


1° alcohol extension monomer

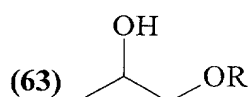


2° alcohol extension
monomer mesylate

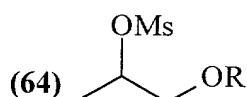
$\xleftarrow{\text{capping reagent}}$



\downarrow B₂
de-blocking
reagent



2° alcohol capping monomer



1° alcohol capping
monomer mesylate

Figure 11

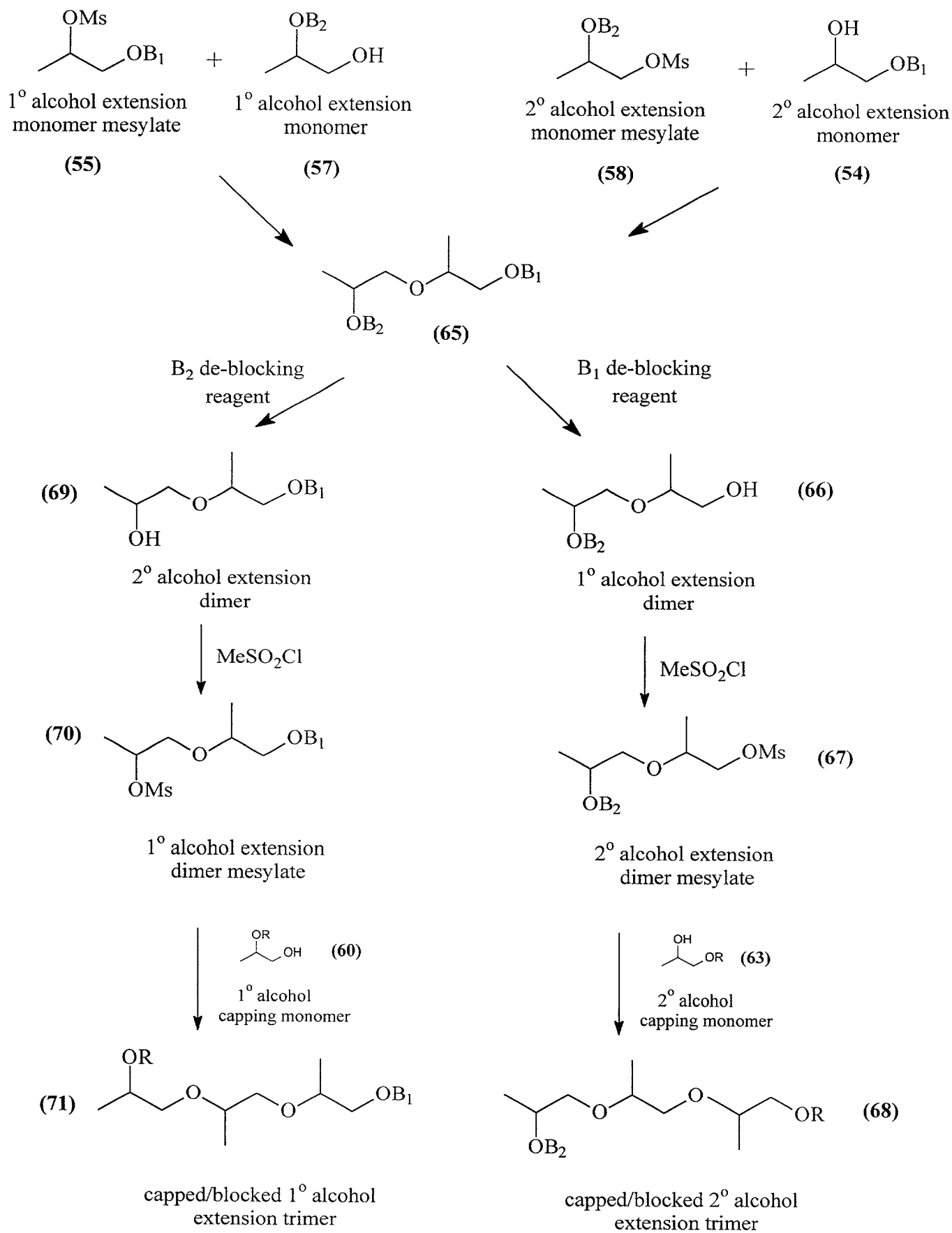


Figure 12

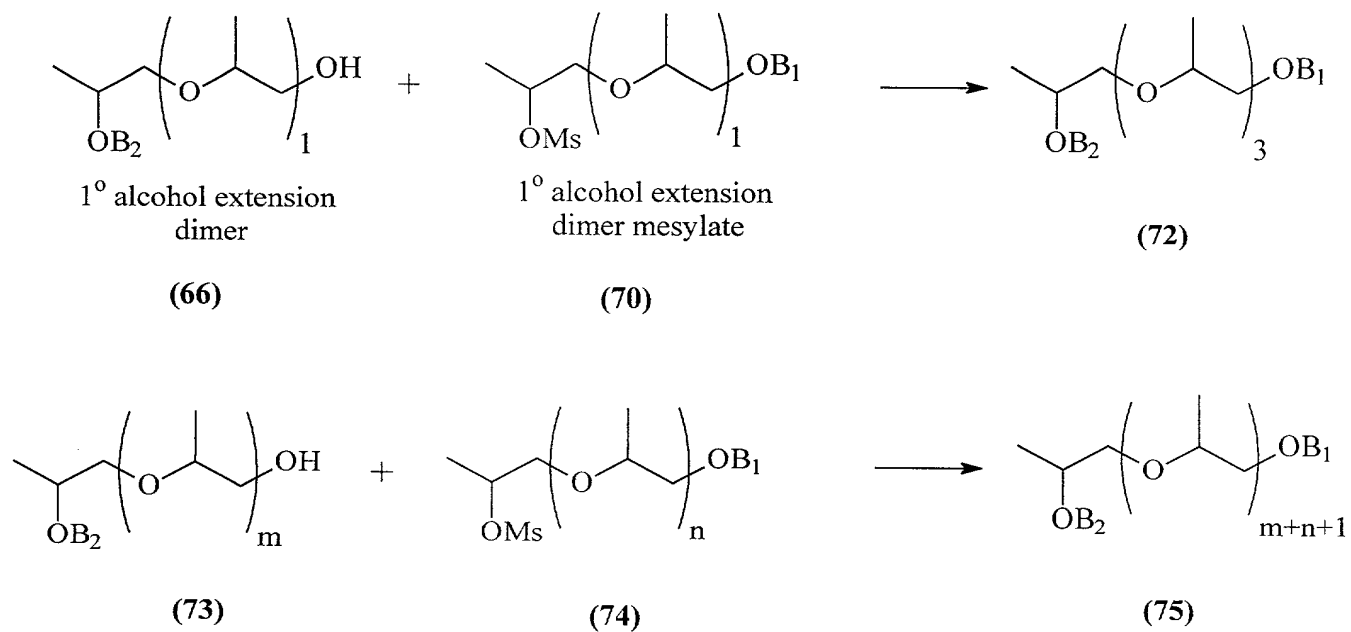


Figure 13

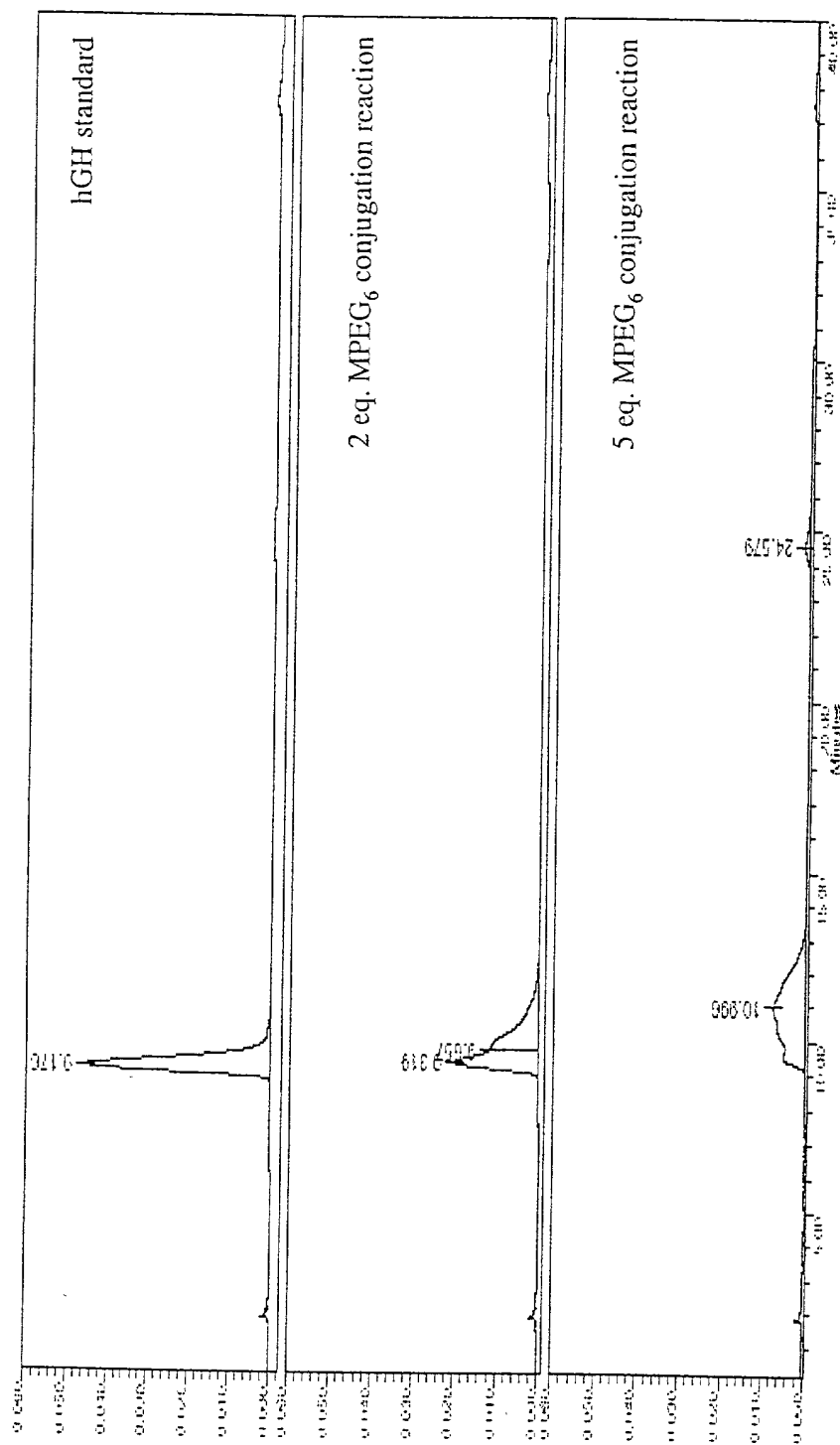


Figure 14

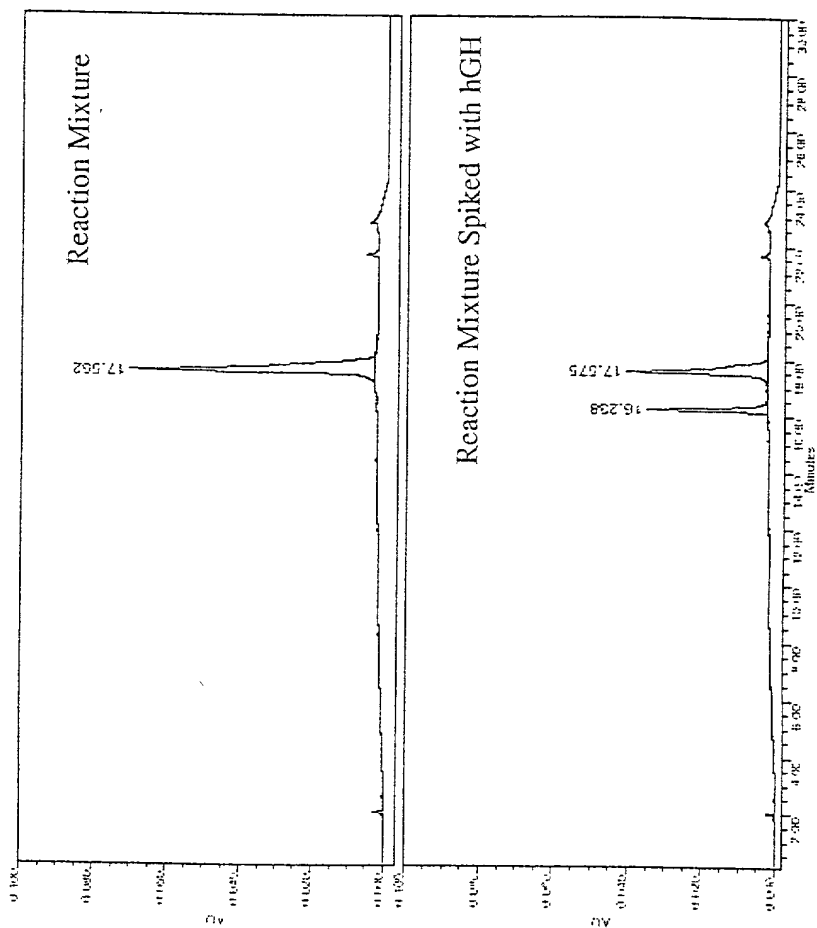


Figure 15

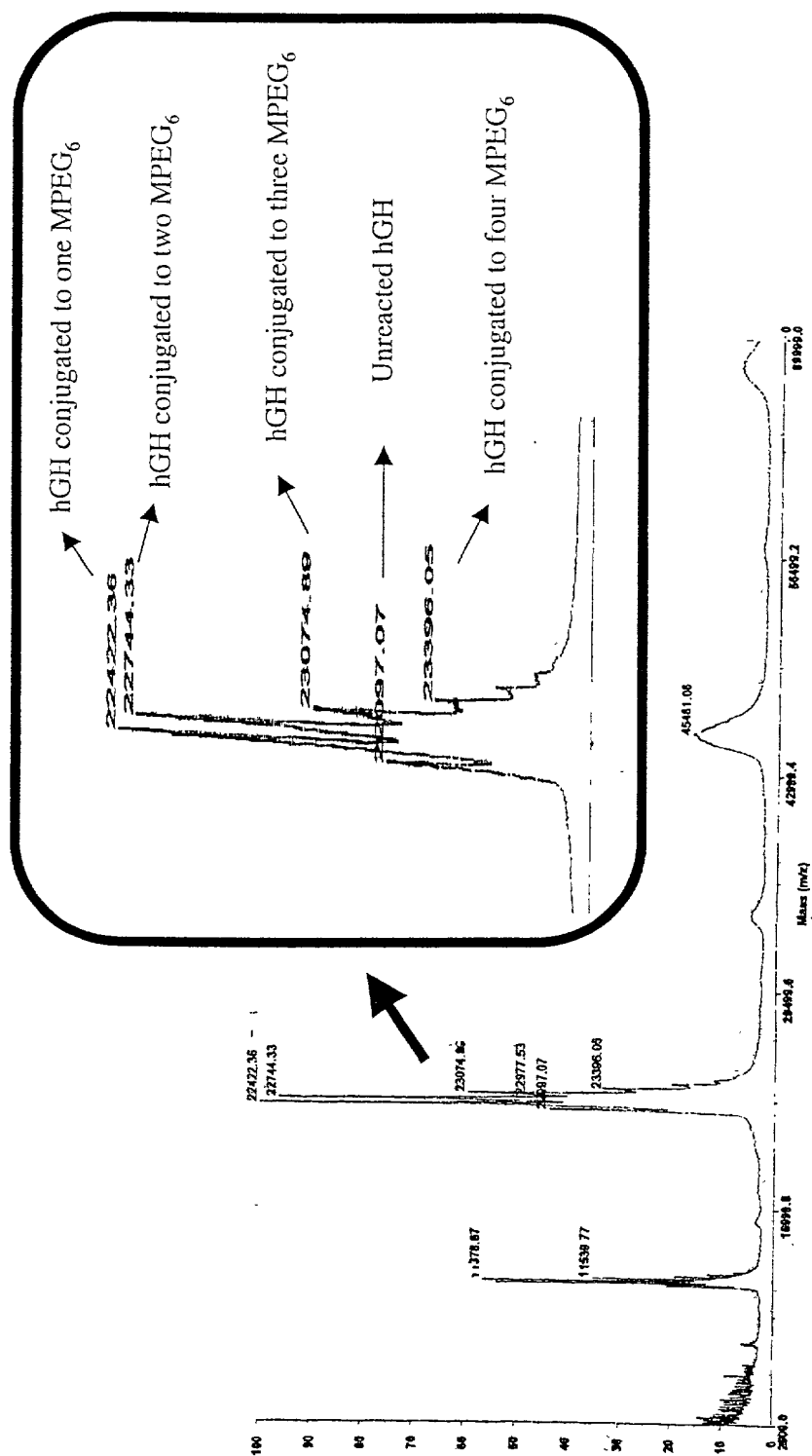
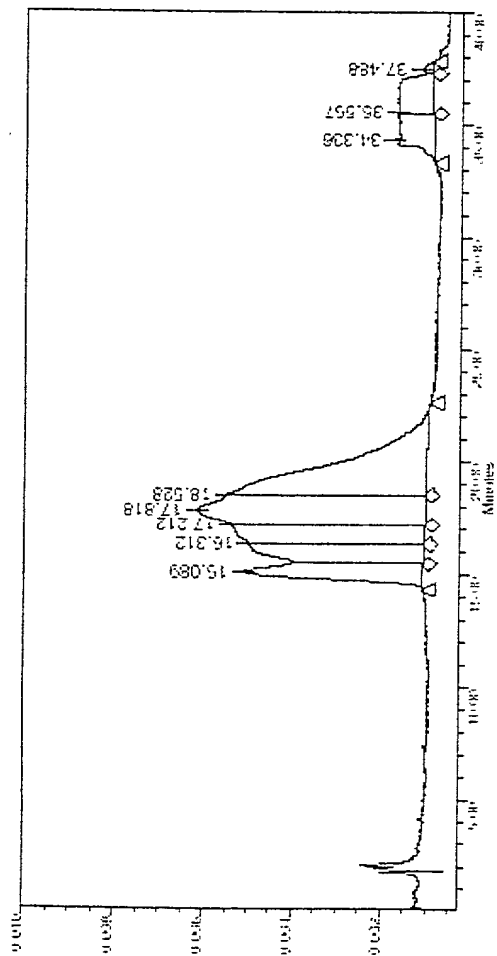


Figure 16



HPLC gradient: 50% to 70% acetonitrile in 30 minutes

Fraction	Retention Time (min.)	Area
150-AO-109A	15.089	155714
150-AO-109B	16.312	179786
150-AO-109C	17.212	221177
150-AO-109D	17.818	379932
150-AO-109E	18.528	400256
150-AO-109F	34.336	74735
150-AO-109G	35.557	76637

Figure 17

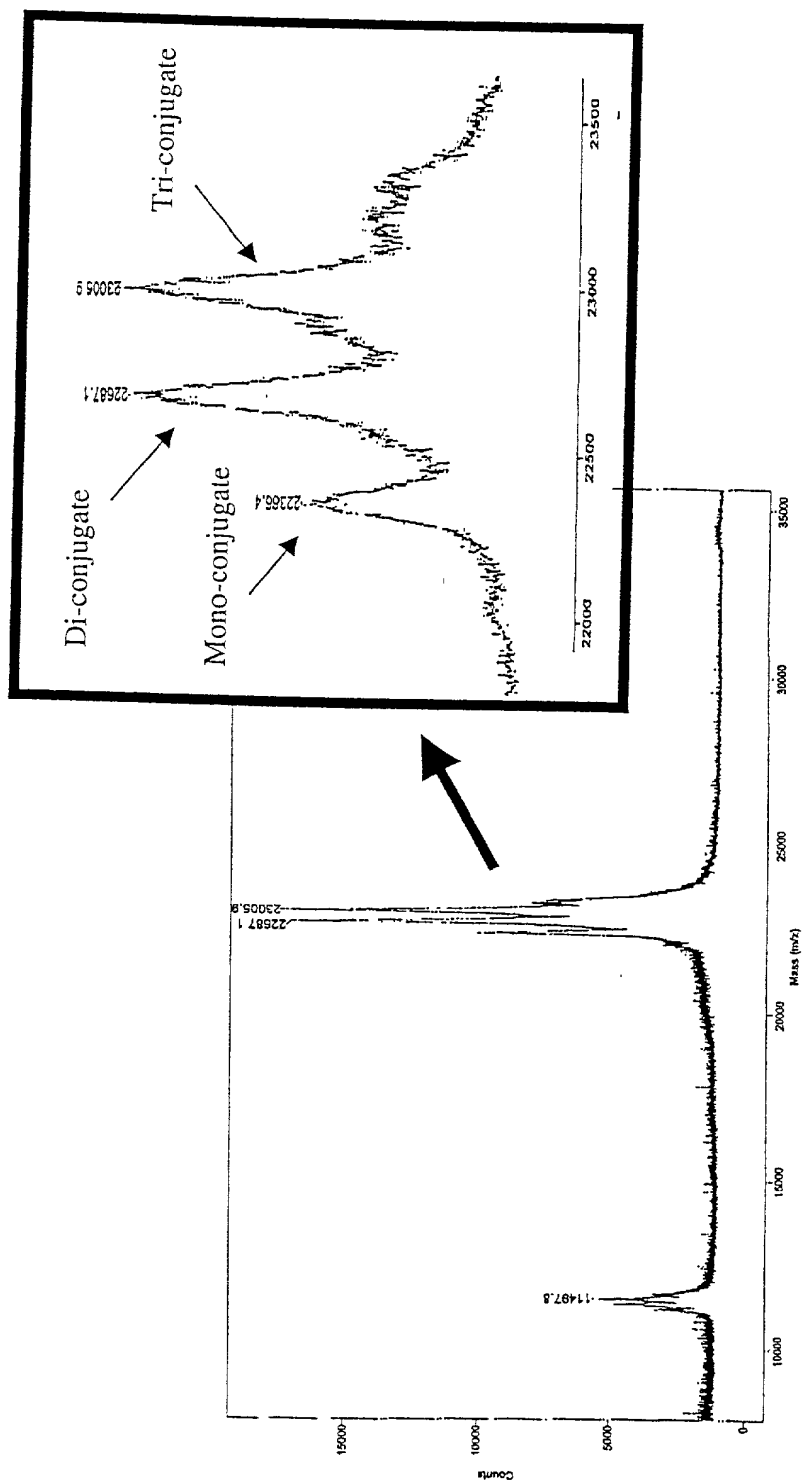


Figure 18

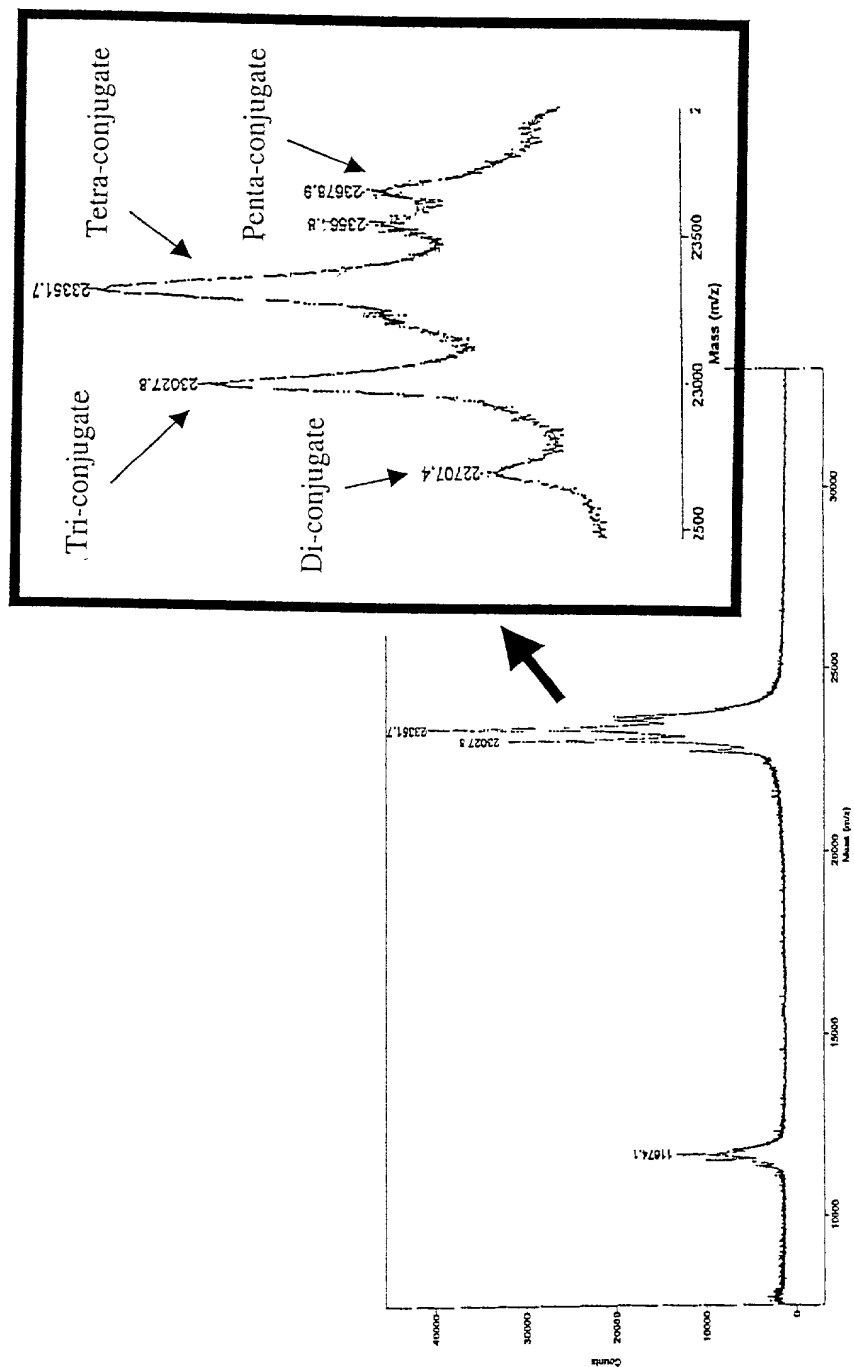


Figure 19

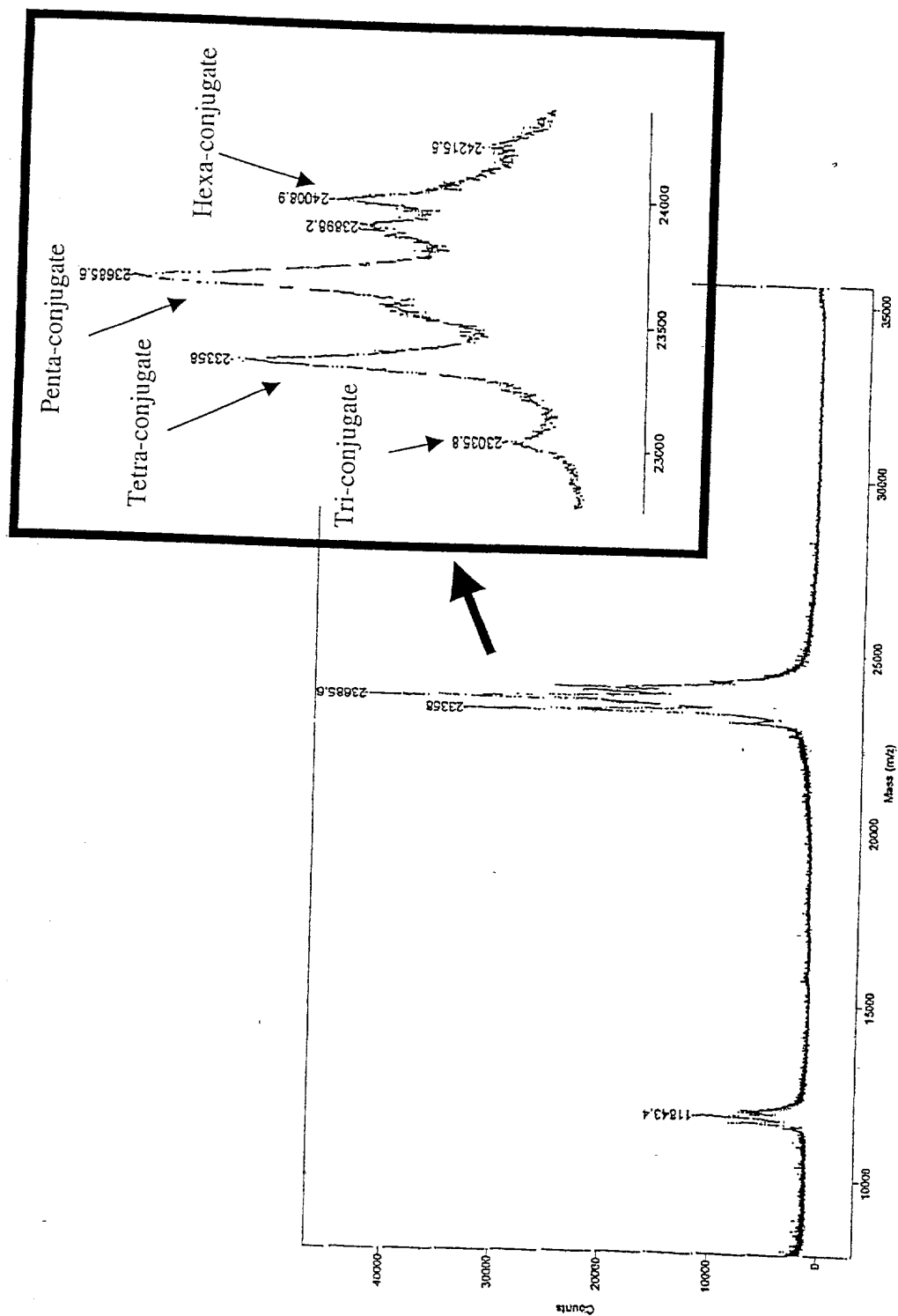


Figure 20

Mass spectrum showing relative intensity (0 to 100) versus mass (2250 to 2650). The spectrum displays several peaks corresponding to the conjugates:

- Deca-conjugate:** Indicated by an arrow pointing to the peak at mass 25377.9.
- Undeca-conjugate:** Indicated by an arrow pointing to the peak at mass 25708.3.
- Dodeca-conjugate:** Indicated by an arrow pointing to the peak at mass 26024.1.

Other labeled peaks include:

- 25300.6
- 25404.8
- 25571.9
- 25711.3
- 26047.0
- 26060.3
- 26080.4
- 25447.8
- 25102.5
- 26135.6
- 26348.4
- 26387.4
- 26388.9
- 26442.3
- 26468.5
- 24753.1
- 24837.0
- 25319.5
- 26099.0
- 24636.8

Figure 22

Stacked Chromatograms

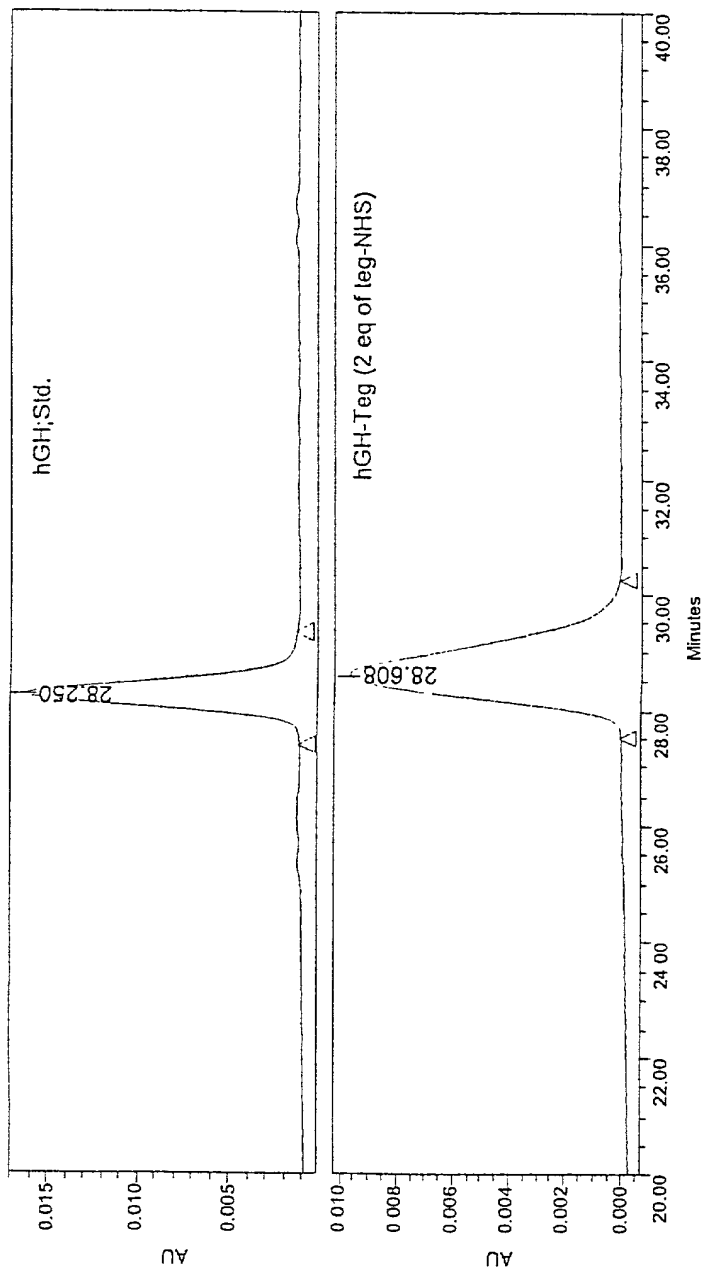


Figure 24

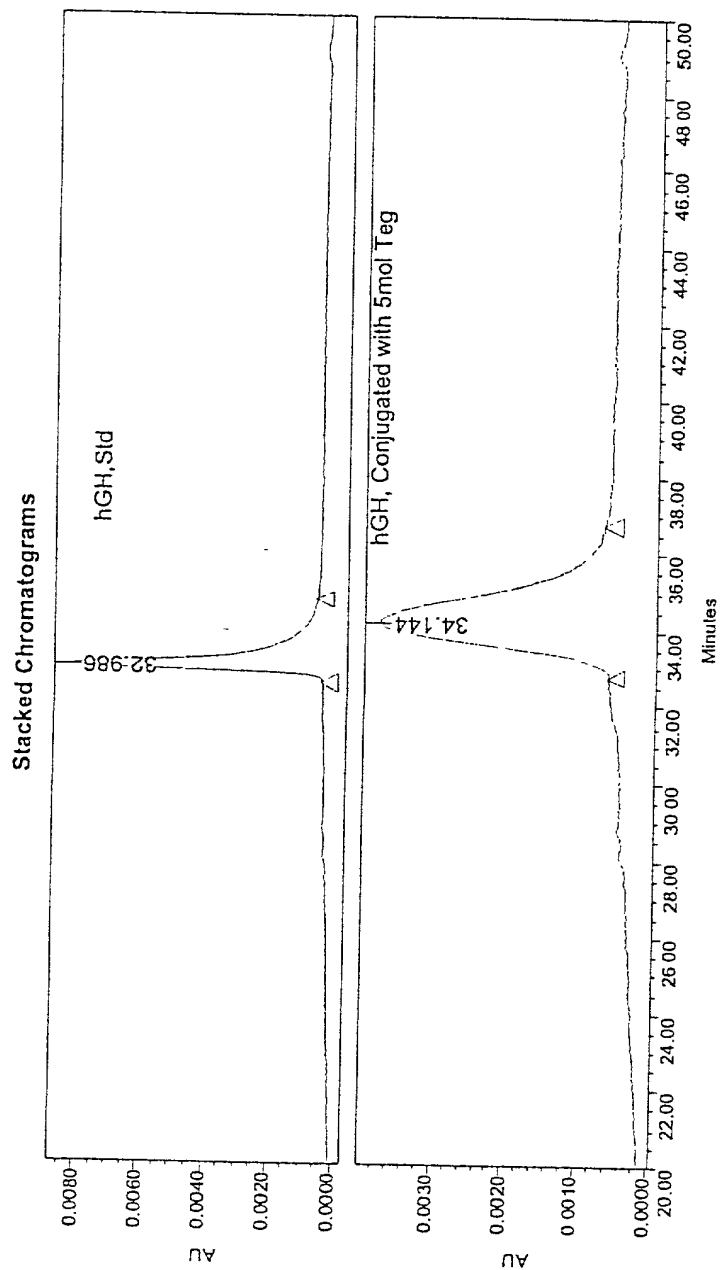


Figure 25

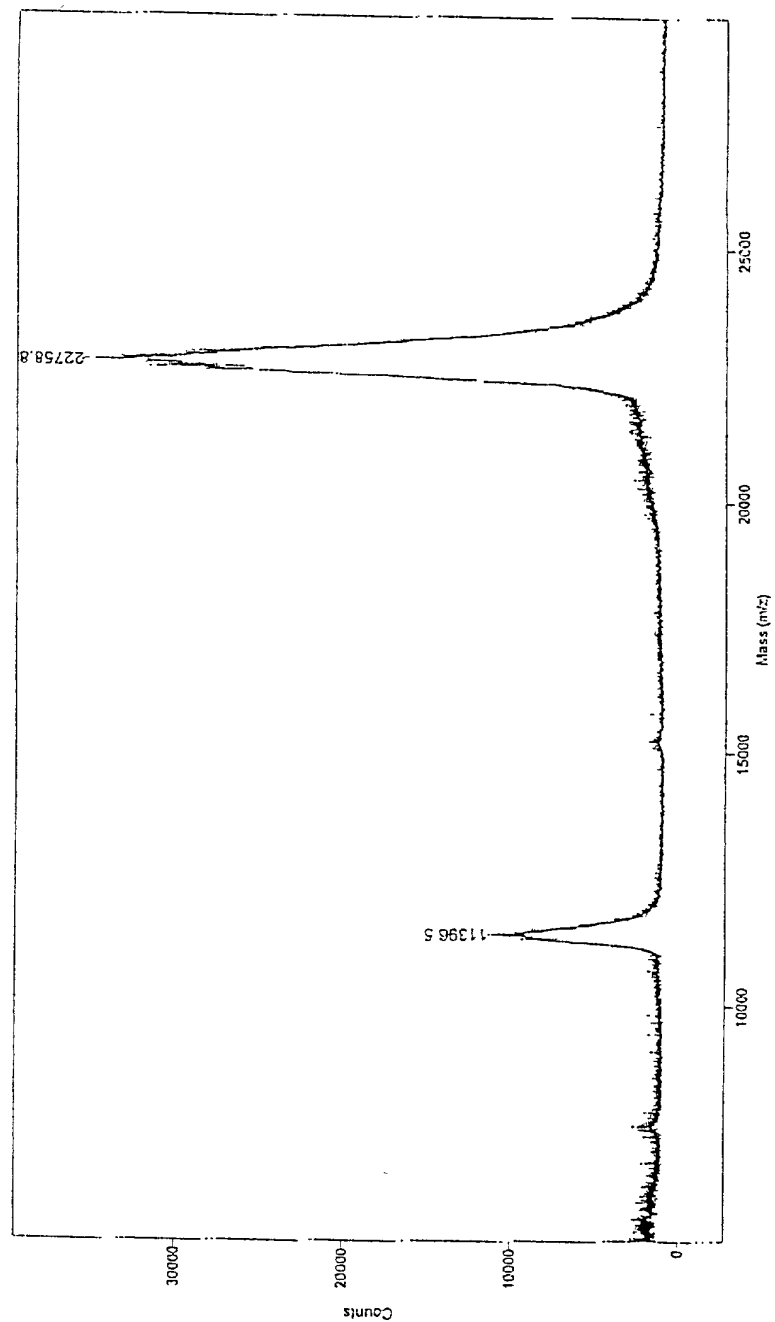


Figure 26

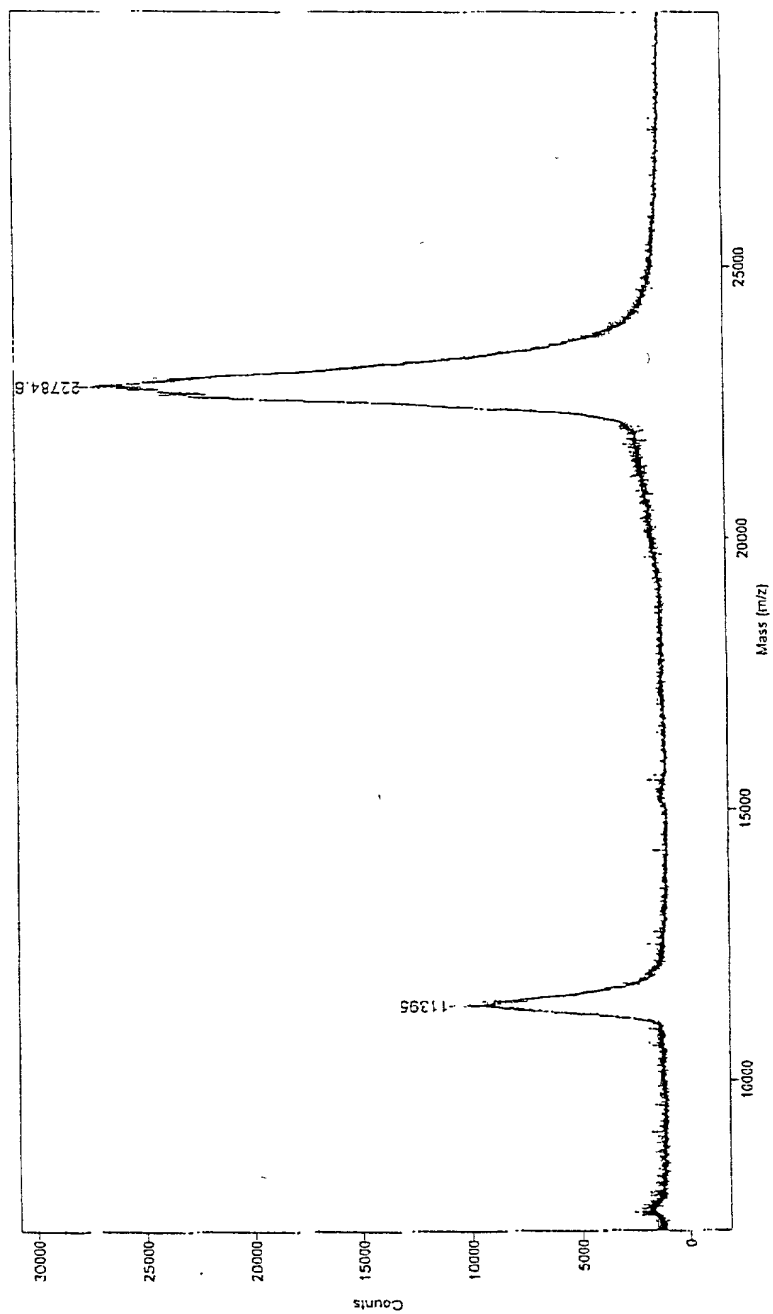


Figure 27

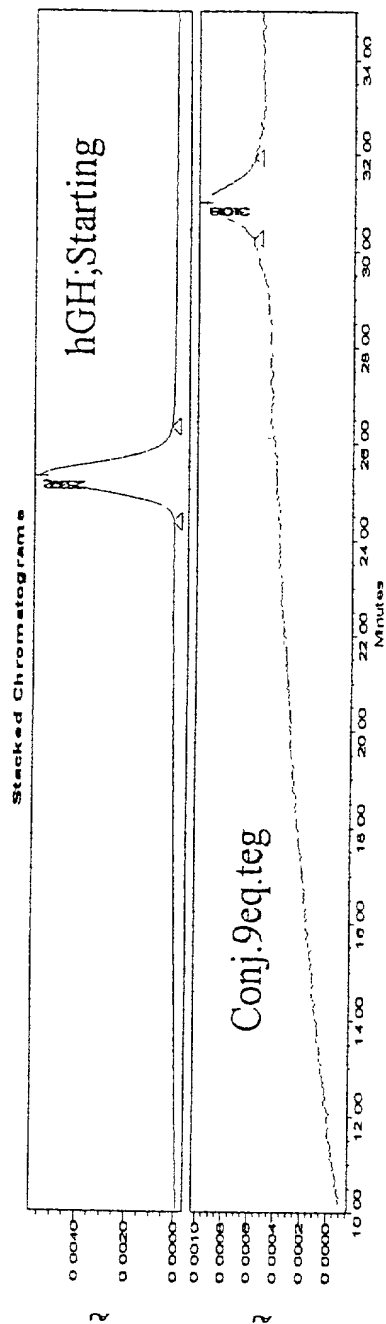


Figure 28

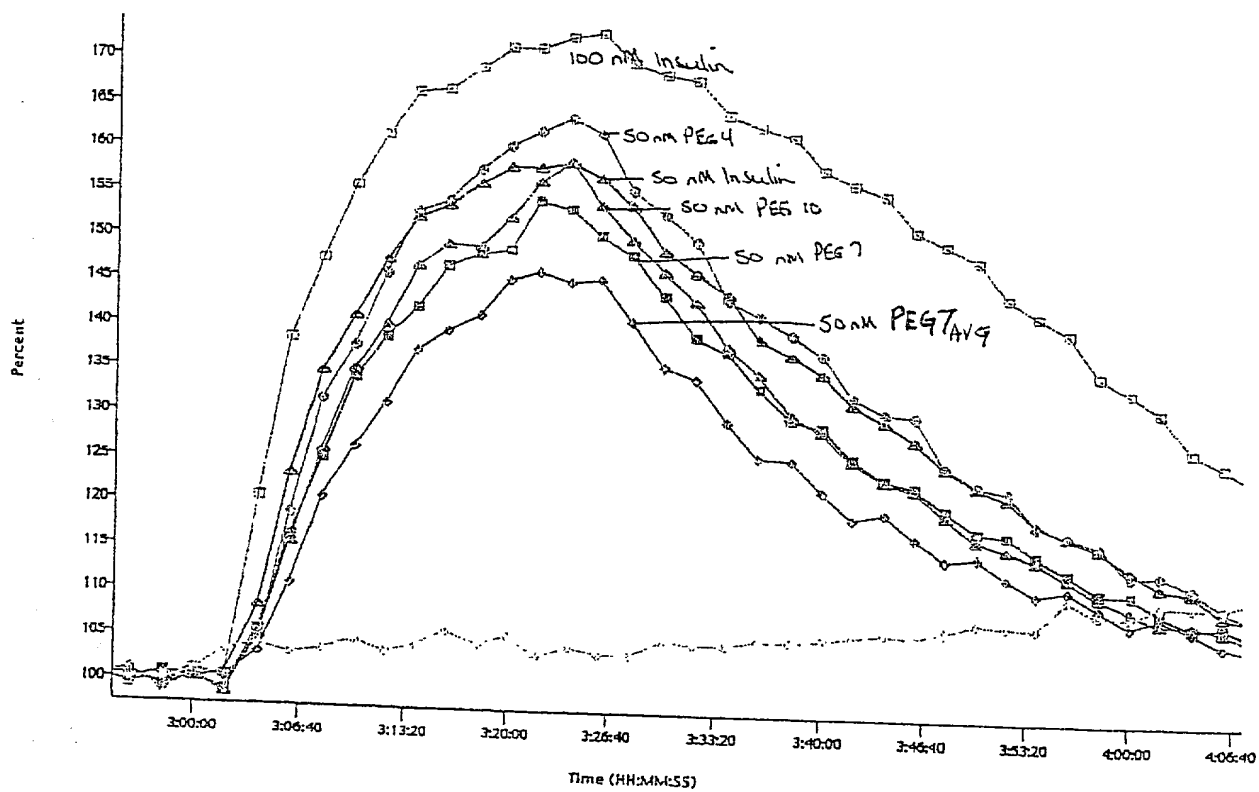


Figure 29

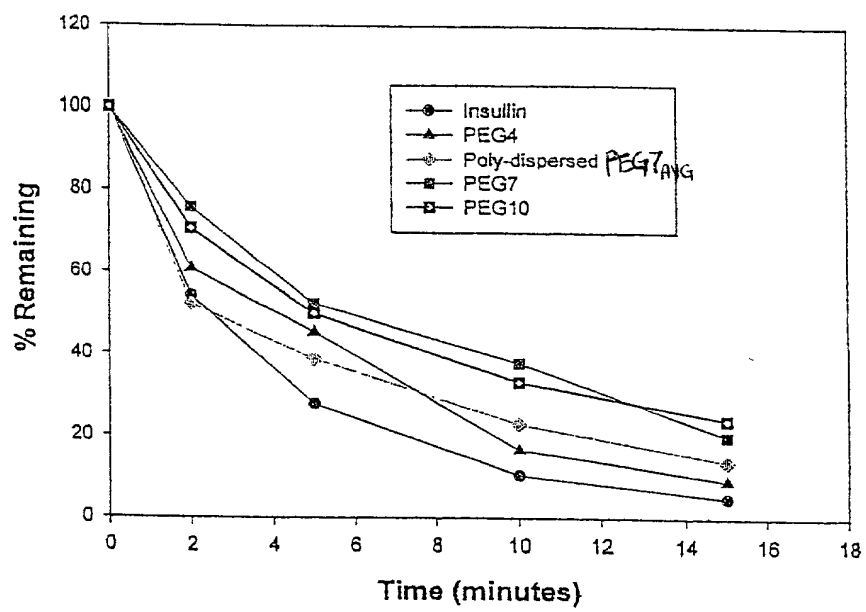


Figure 30

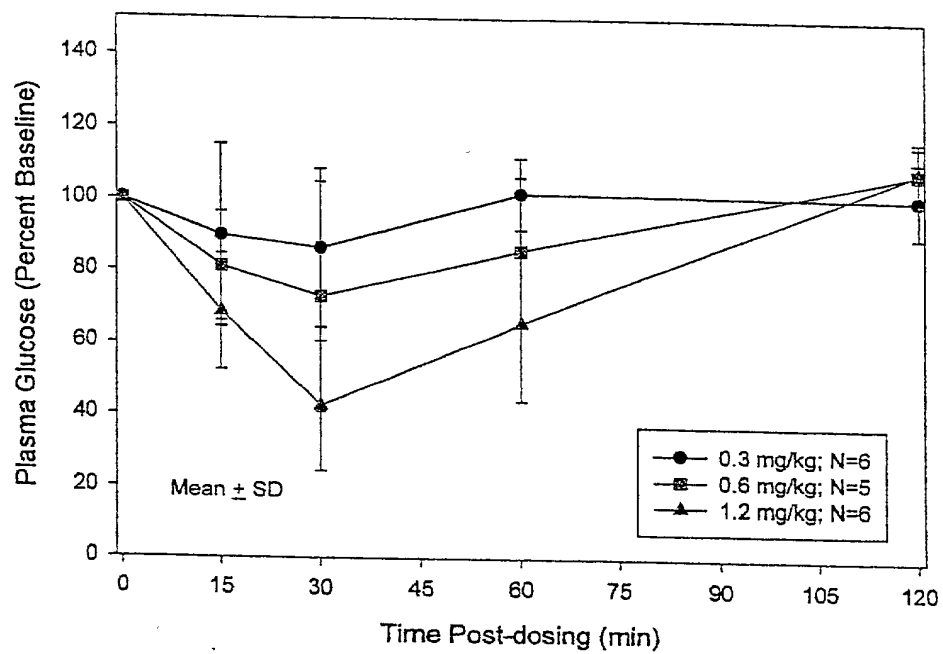


Figure 31

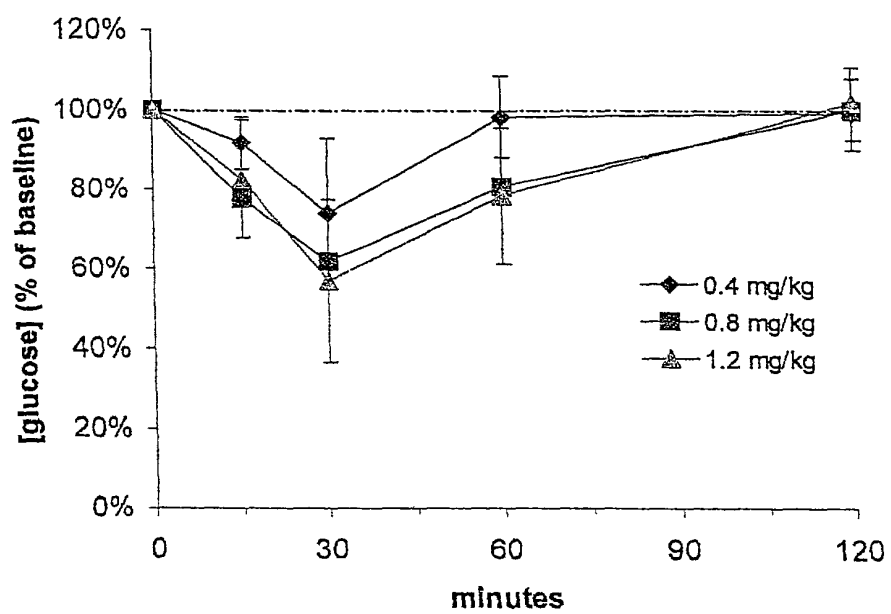


Figure 32

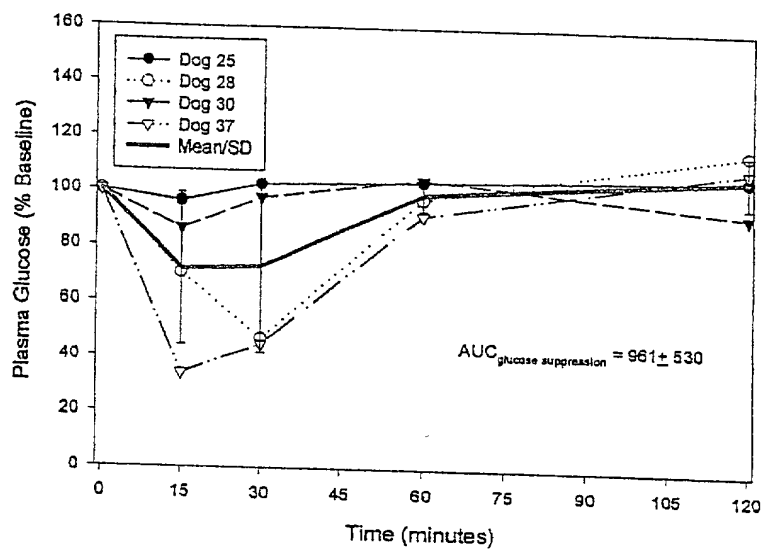


Figure 33

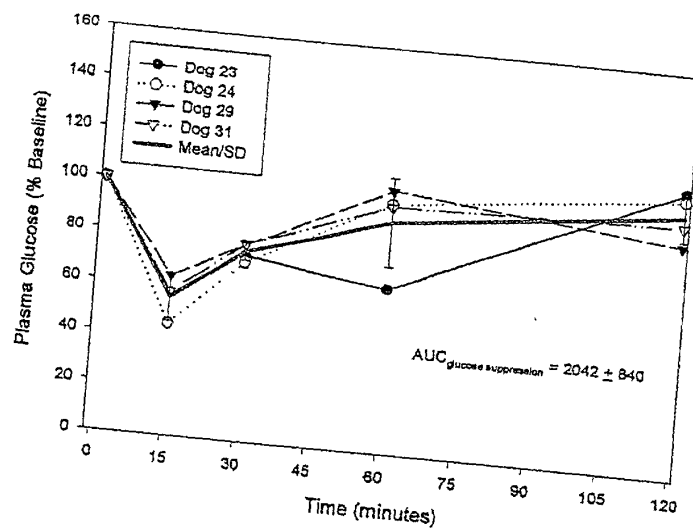


Figure 34

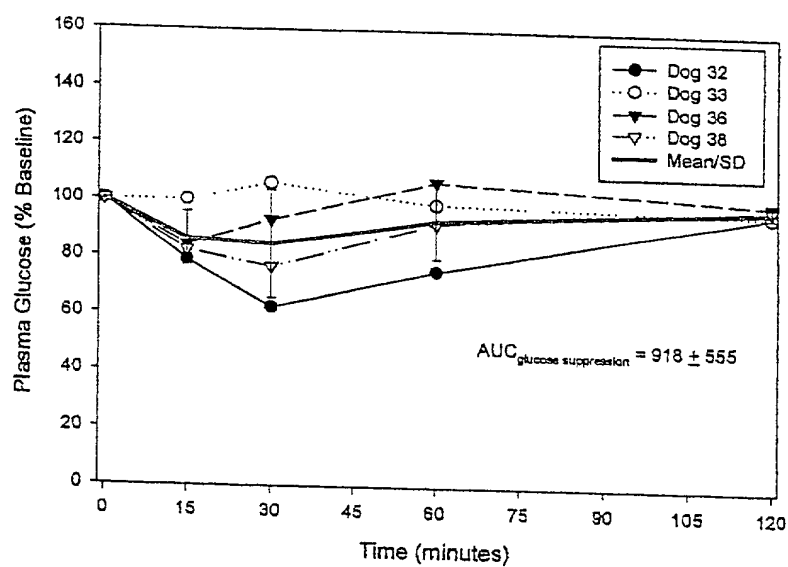


Figure 35

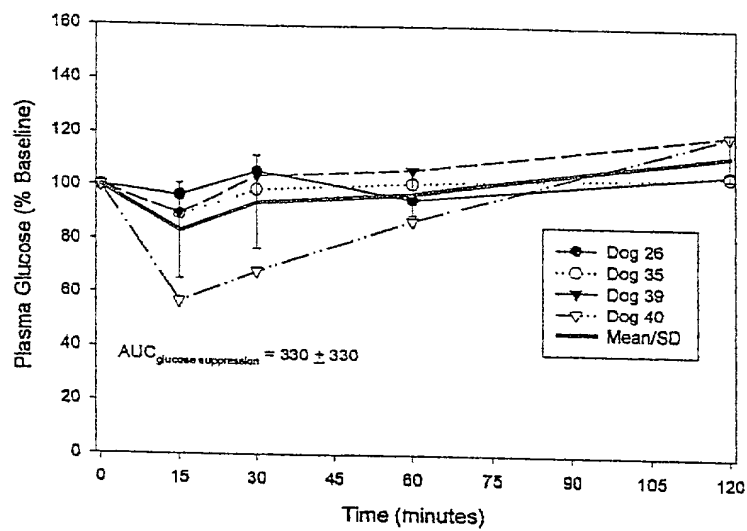


Figure 36

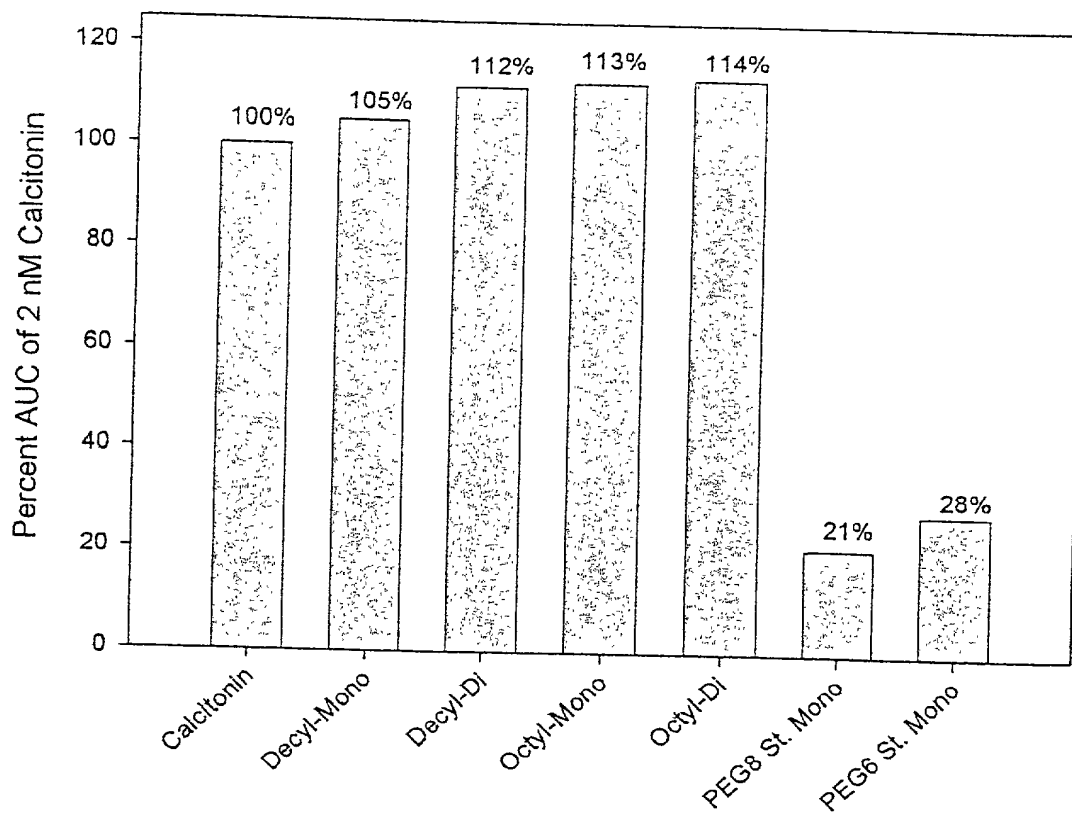


Figure 37

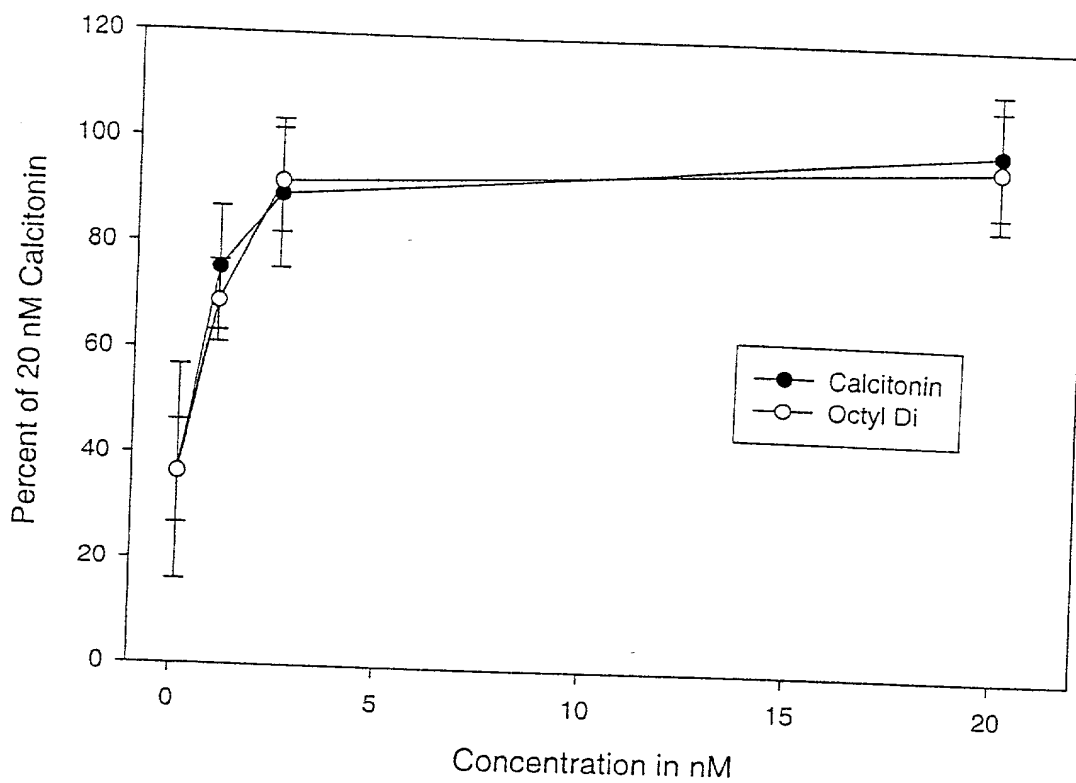


Figure 38

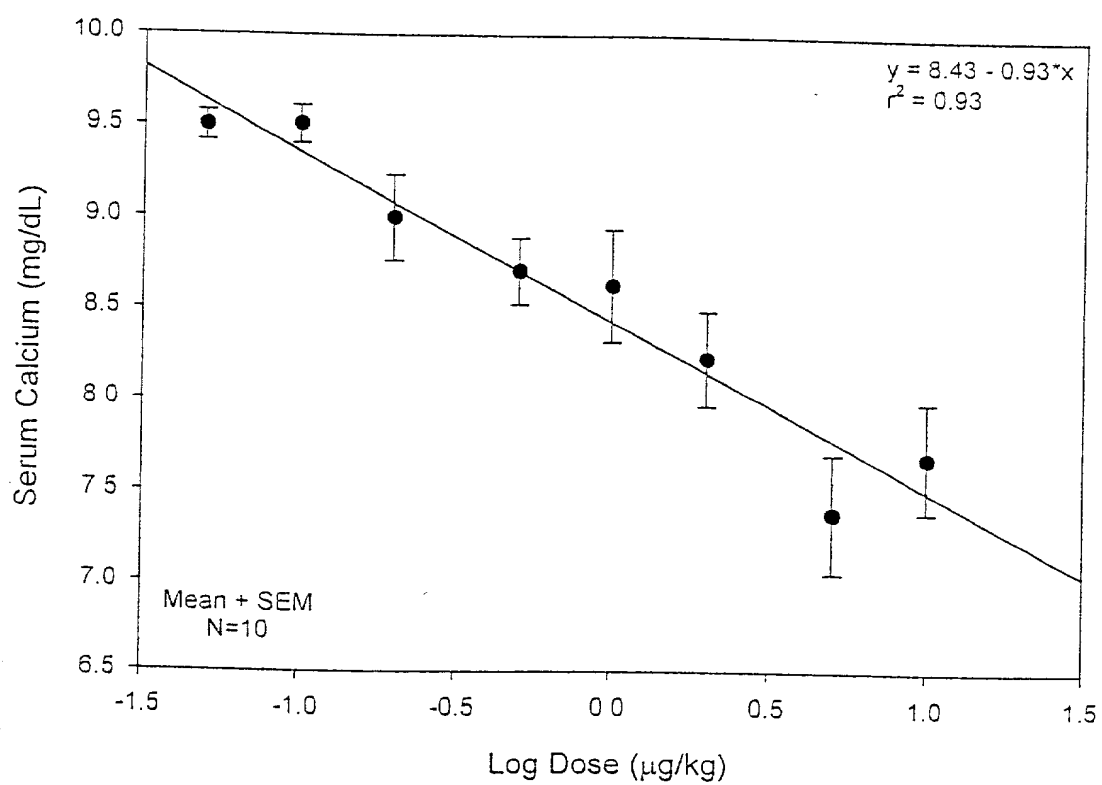


Figure 39

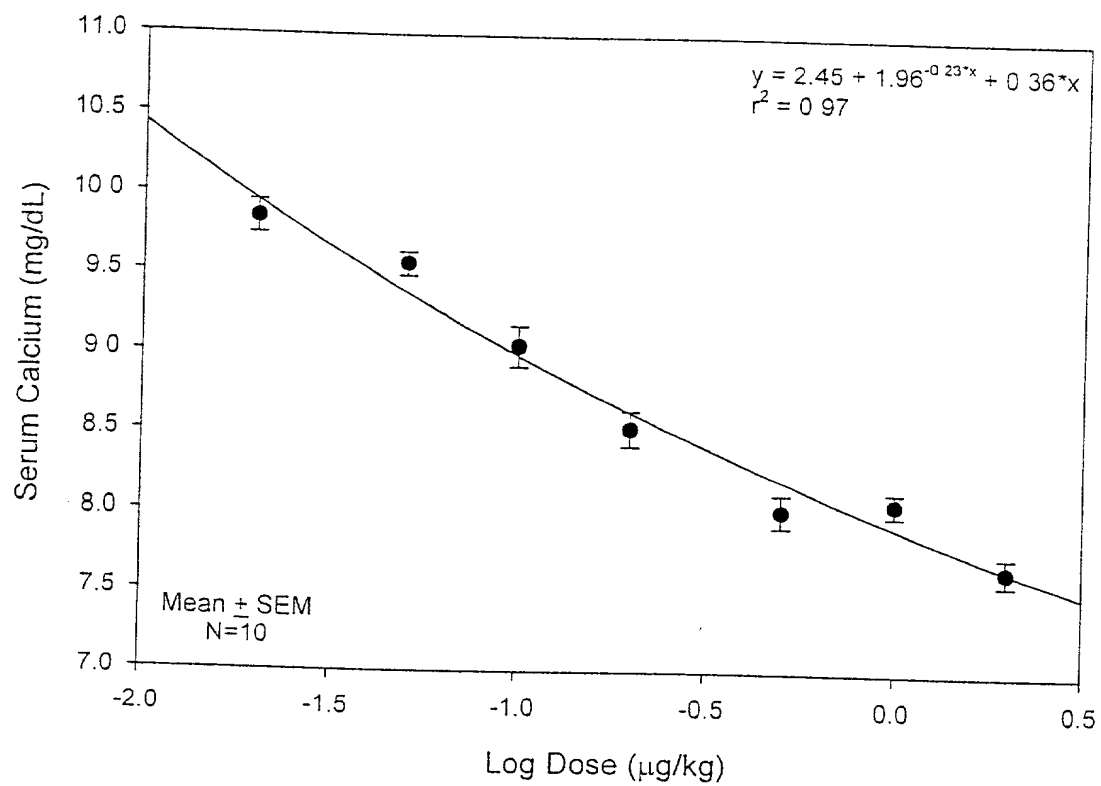


Figure 40

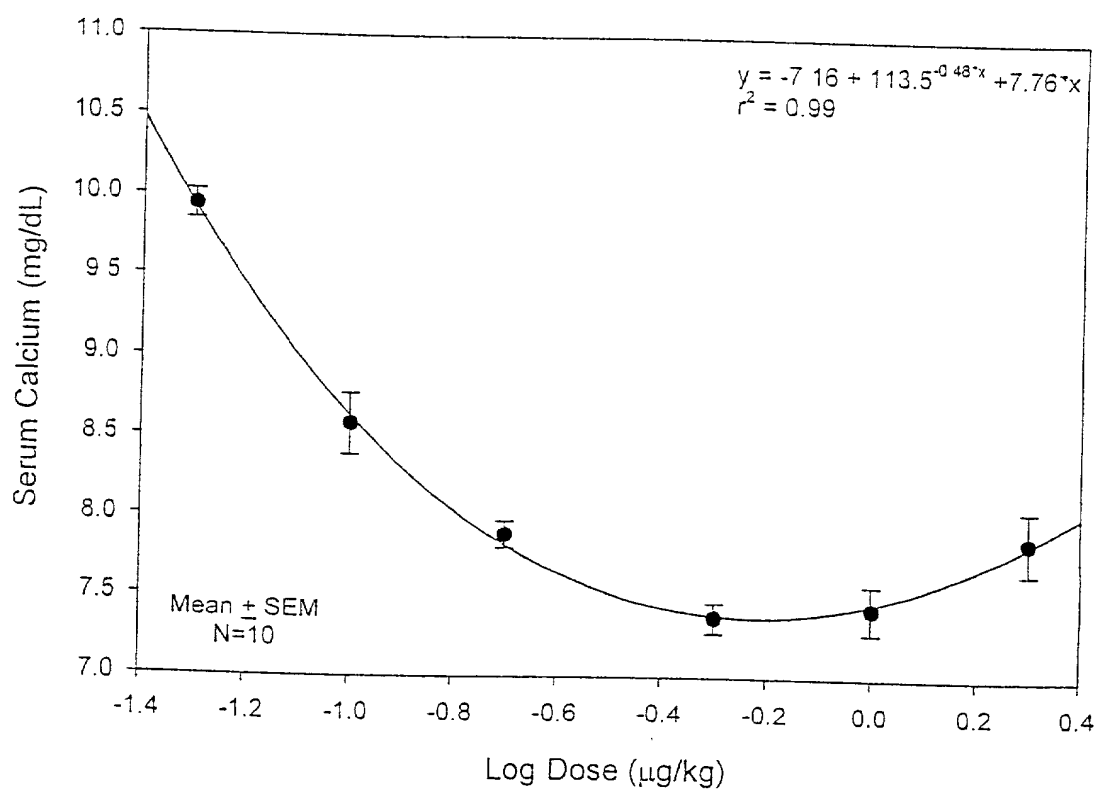


Figure 41

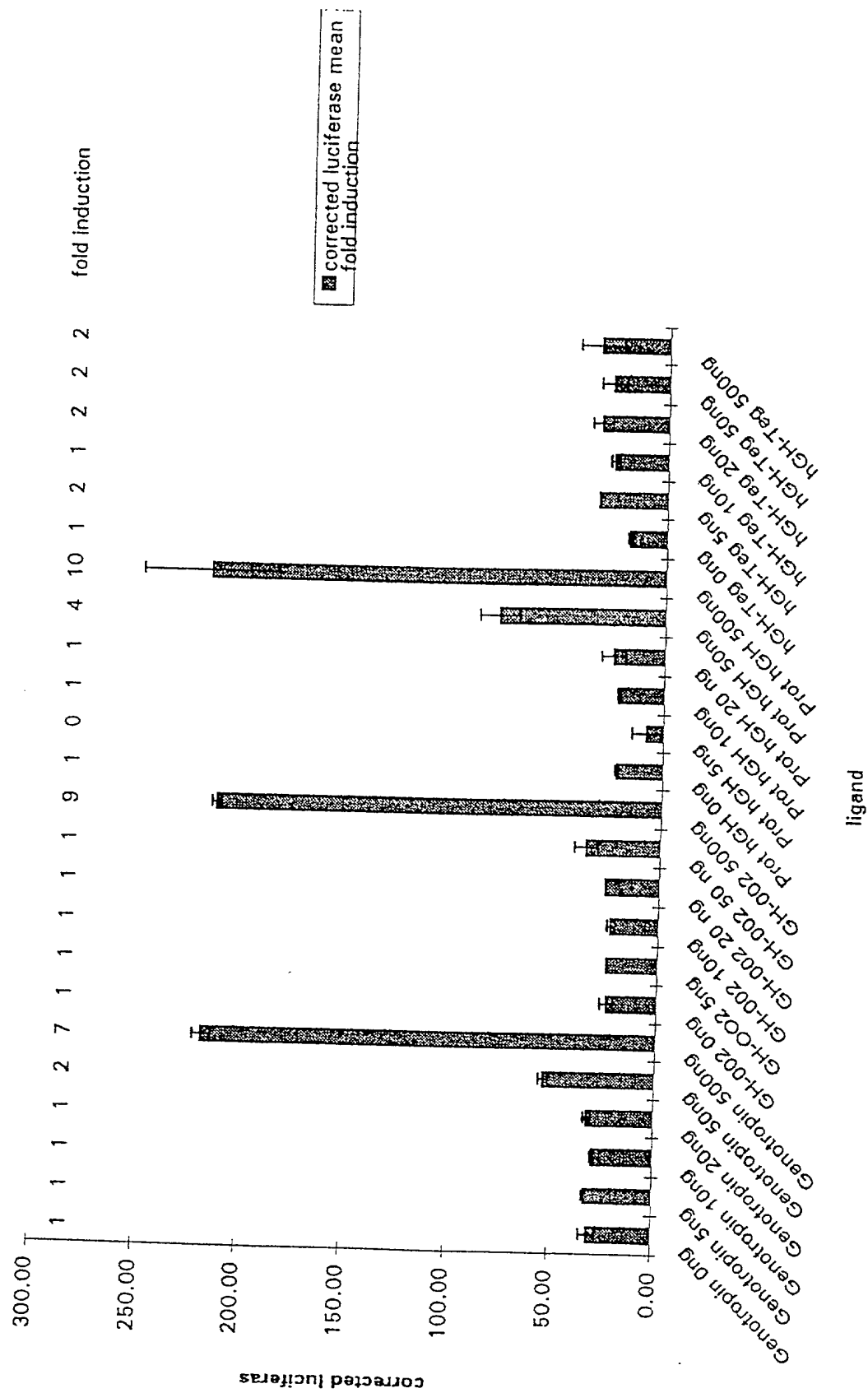


Figure 43

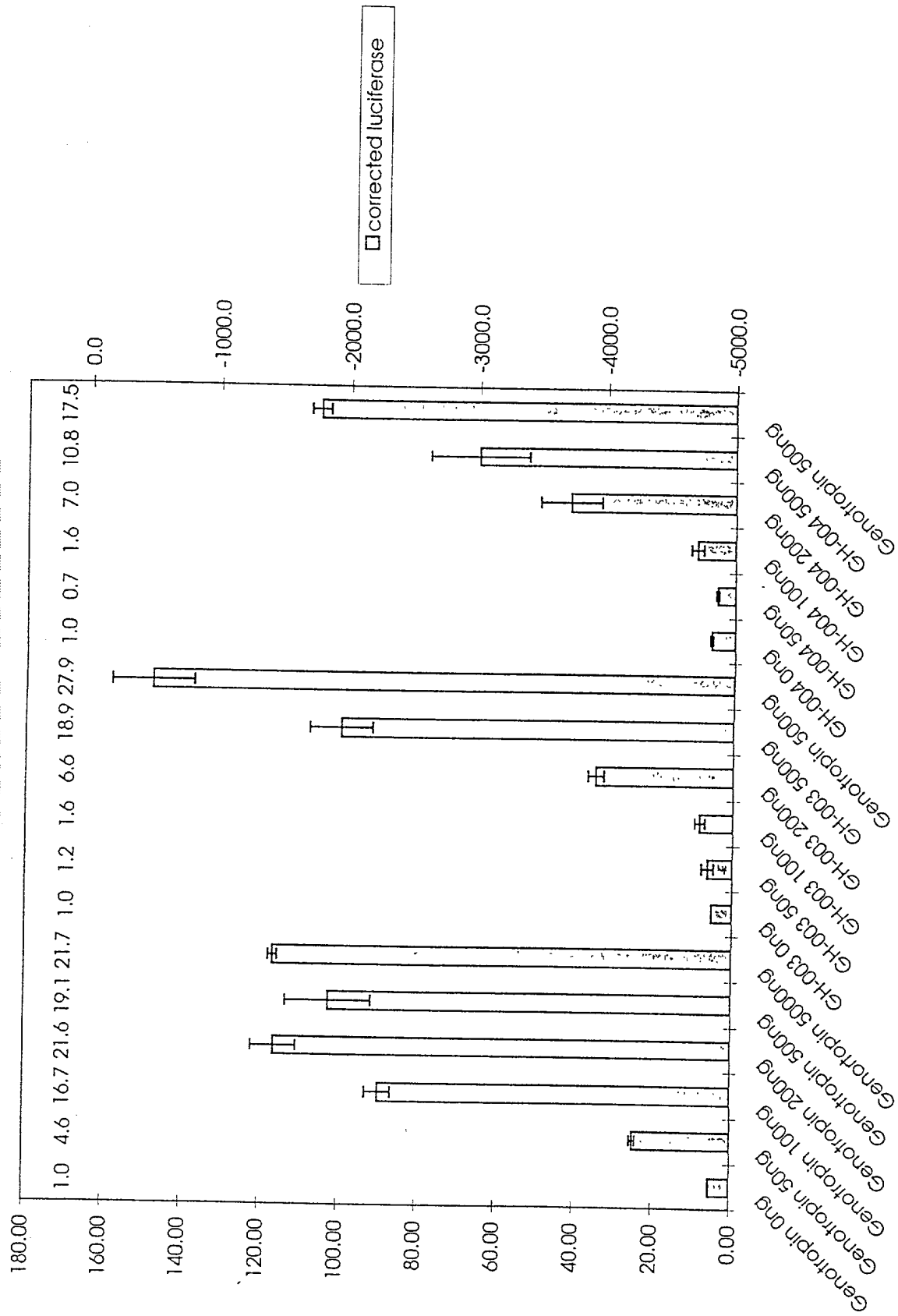


Figure 43